

## **CLAIMS**

What is claimed is:

- 1    1.     An air conditioning system adapted for control of the amount of moisture within air being  
2    conditioned, the system comprising:  
3        a condensing unit;  
4        an air handler containing a blower motor for movement of air past a cooling coil;  
5        a speed control for the air handler, the speed control operable to operate the blower motor  
6    of the air handler at a lower speed.
  
- 1    2.     The air conditioning system of claim 1 wherein the speed control further comprises a time  
2    delay circuit having a first operating mode in which the blower motor is off, a second operating  
3    mode in which the blower motor operates at a lower speed, and a third operating mode in which  
4    the blower motor is operated at a higher speed.
  
- 1    3.     The air conditioning system of claim 2 wherein the lower speed is approximately 70% of  
2    the higher speed.
  
- 1    4.     The air conditioning system of claim 2 wherein the time delay circuit causes the blower  
2    motor to operate at the lower speed for a predetermined delay period at the start of a blower cycle.

1 5. The air conditioning system of claim 4 wherein the predetermined delay period is from  
2 about 5 minutes to about 7 minutes.

1 6. The air conditioning system of claim 1 further comprising:  
2 an outside air damper for selective introduction of outside air into the air conditioning  
3 system; and  
4 a humidistat for operational control of the outside air damper to close the outside air  
5 damper upon detection of an excessive humidity level.

1 7. An air conditioning system adapted for control of the amount of moisture within air being  
2 conditioned, the system comprising:  
3 a condensing unit;  
4 an air handler containing a blower motor for movement of air past a cooling coil;  
5 an outside air damper for selective introduction of outside air into the air conditioning  
6 system;  
7 a humidistat for operational control of the outside air damper to close the outside air damper  
8 upon detection of an excessive humidity level; and  
9 a speed control for the air handler.

1 8. The air conditioning system of claim 7 wherein the speed control comprises a time delay  
2 circuit and a single pole, double –throw relay.

1 9. The air conditioning system of claim 7 wherein the time delay circuit has a first operating  
2 mode in which the blower motor is off, a second operating mode in which the blower motor operates  
3 at a lower speed, and a third operating mode in which the blower motor is operated at a higher speed.

1 10. The air conditioning system of claim 7 further comprising return air ductwork for  
2 carrying conditioned air from the structure back into the air conditioning system, and wherein the  
3 humidistat is mounted within the return air ductwork.

1 11. The air conditioning system of claim 9 wherein the time delay circuit causes the blower  
2 motor to operate at the lower speed for a predetermined delay period at the start of a blower cycle.

1 12. The air conditioning system of claim 11 wherein the predetermined delay period is from  
2 about 5 minutes to about 7 minutes.

1 13. A method of controlling the moisture level of conditioned air within a structure comprising  
2 the steps of:

3 energizing a cooling coil;

4 operating a blower motor at a first speed for a predetermined time period to move air past the  
5 cooling coil; and

6 operating the blower motor at a second speed after said predetermined time period has  
7 elapsed to move air past the cooling coil, the second speed being greater than the first speed.

1 14. The method of claim 13 further comprising the steps of:  
2 detecting a humidity level within conditioned air; and  
3 limiting entry of outside air into the conditioned air by closing off an outside air damper  
4 upon detection of a predetermined humidity level.

1 15. The method of claim 13 wherein the predetermined time period is from about 5 minutes  
2 to about 7 minutes.

1 16. The air conditioning system of claim 13 wherein the first speed is approximately 70% of  
2 the second speed.